

Creating the smart cities of the future

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City 1.0

City government as **administrator**.
People as **residents**

Socialization

City 2.0

City government as **service provider**.
People as **consumers**

Consultation

City 3.0

City government as **facilitator**.
People as **participants**

Participation

City 4.0

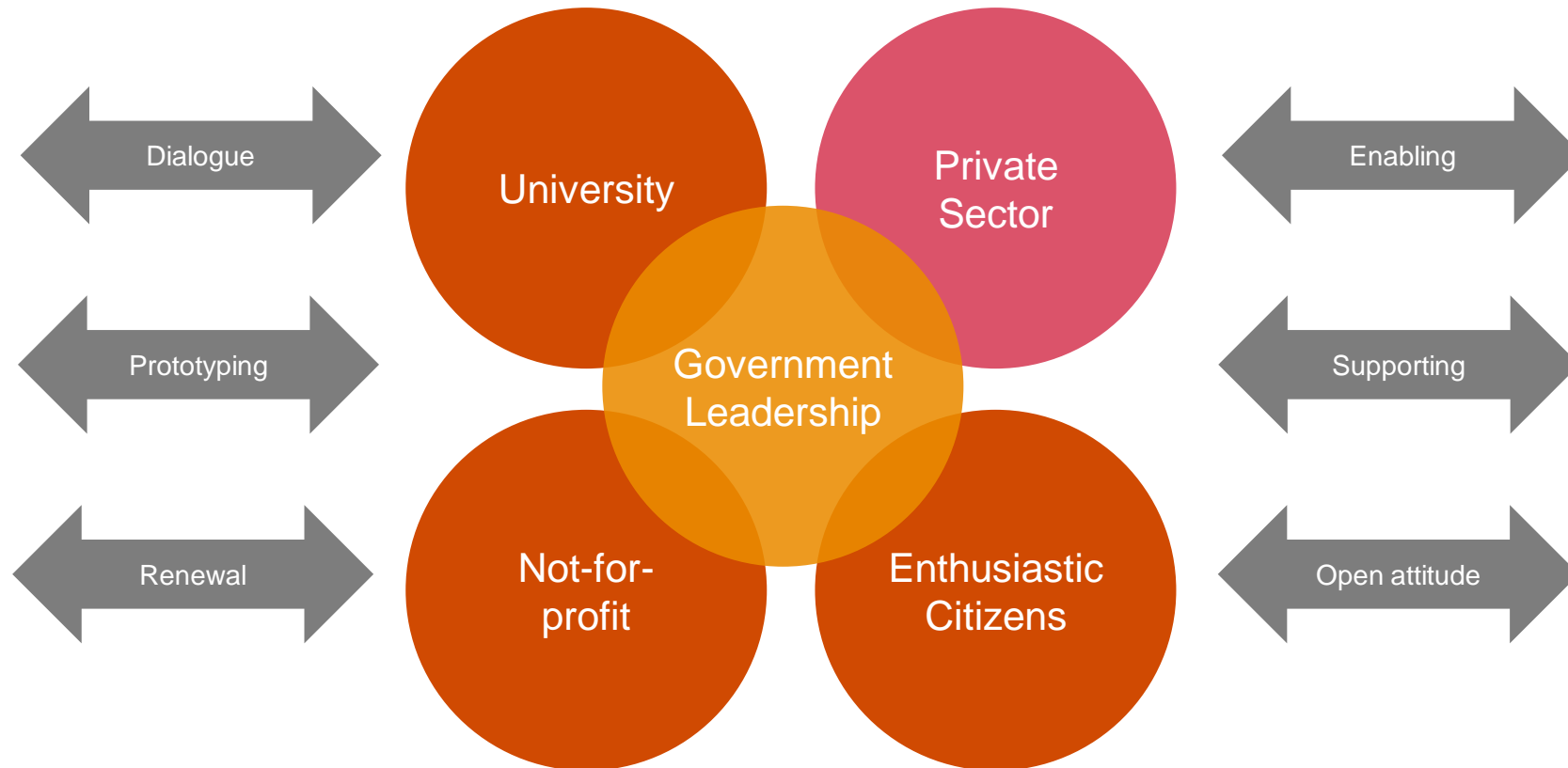
City government as **collaborator**.
People as **co-creators**

Collaboration

Marcus Foth

Professor of Urban Informatics
Queensland University of Technology

Stakeholder collaboration – creating a new playground for growth



Source: PwC 'Future of Government'

The evolutionary path of smart city development



1

Tier One

2

Tier Two

3

Tier Three

Contracting Structure

Traditional contracting structure

Public-private partnership (PPP)

Digital ecosystem in and around the city's digital infrastructure

Characteristics

Point implementation of a specific smart city service / capability / infrastructure.
Business as usual contracting – the default mode

Implementation of smart city service using a PPP scheme, allowing the contracted private sector party to provide add-on services
PPP scheme is usually a highly complex deal and exclusive to a private sector party

Creation of an open digital platform that allows private sectors to co-create cross-sector smart city services
Participation by multiple parties in the digital platform becomes easy and flexible at “internet speed”

Example

Procure and implement smart street lighting

Fully managed smart street lighting network delivered in a PPP contract

Open digital platform around a fully managed smart street lighting network with cloud platform for other services, e.g. free wi-fi, e-education services

A different approach requires a different mindset ...

Government

Possible roles:

- 1) Purchaser of services from the private sector
- 2) Co-investor/co-participant with the private sector in smart city solutions
- 3) Regulator and protector of the public interest, both overseeing and facilitating smart infrastructure
- 4) Data owner, data integrator
- 5) Owner and operator of technology infrastructure / platform

Require shifting mindset to broaden the potential benefits to citizens by engaging with private companies for tier-three type collaboration

Private companies

Energized by the opportunities created by smart city initiatives – but mostly still with mindset of "**sell to**" or "**sell with**" governments – this is Tier One mindset

Tier Two: PPP sharing revenues, intellectual property and risks with governments

Tier Three: companies need to think creatively and engage with governments in new and more collaborative ways while building ecosystem of private players as well as engaging citizens

Let's start a conversation

<https://www.pwc.com/gx/en/industries/government-public-services/smart-cities.html>

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